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Dr. Trupti Ranjan Mahapatra

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ABOUT US

Veer Surendra Sai University of Technology (VSSUT), Odisha (formerly known as University College of Engineering (UCE), Burla) was formed by Odisha Act 9 of 2009 by upgrading to a Unitary State University, which came into force from 1st day of July 2009. VSSUT is located at the foothill of famous Hirakud Dam – longest in Asia. Burla is known as Intellectual Capital of Odisha with VSSUT, VSS Institute of Medical Science and Research, Sambalpur University, MCL, WESCO and IIM Sambalpur. It is located 12 KM away from Sambalpur railway station and 3 KM away from Hirakud railway station. VSSUT, Burla has carved a niche for itself among the best technical institutes in India and is a dream institute for many budding engineers. The University offers B. Tech, M.Tech, Dual Degree, M. Sc, Int. M. Sc., MCA and Ph. Ds. The university is surrounded by a large number of Government, public and private industrial sectors such as OHPC, HINDALCO, NALCO, NTPC, OPTCL, Vedanta Aluminium Ltd. and Bhusan Steel Plant. The institute has an excellent placement record with a number of top-ranking companies visiting the campus every year.



The Production Engineering department was started in the year 1996 and presently is rich heritage of academic excellence, innovative curriculum, effective classroom teaching, application-oriented practices, well equipped laboratories and updated workshops, excellent placement record, industry institute interaction and top of the line faculty members with outstanding research abilities. Now, the department runs B. Tech, M. Tech. (Manufacturing Systems Engineering and Robotics and CAD/CAM) and Ph.D programme.



Science and Engineering Research Board (SERB)

Department of Science and Technology, Government of India
sponsored

5 Days Online

Workshop/Training Program

on

Structural and Acoustic Analysis using Commercial Software

23rd - 27th November 2020

Under Scientific Social Responsibility

(SSR) Policy

Coordinator

Dr. Trupti Ranjan Mahapatra

Principal Investigator (SRG/2019/001860)

Organized by



Department of Production Engineering
Veer Surendra Sai University of Technology
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ABOUT SERB SCIENTIFIC SOCIAL RESPONSIBILITY (SSR) POLICY

SERB has adopted Scientific Social Responsibility (SSR) Policy to imbibe a culture of social commitment among SERB Grantees. The policy intends to effectively utilize scientific infrastructure and expertise of SERB grantees to benefit other S&T stakeholders especially the less-endowed researchers and the society. SSR initiatives include infrastructure sharing, mentoring young faculty/researchers, fostering research culture among students and the academic community and public outreach and knowledge dissemination. SERB SSR policy ensures that the SSR activities are minimal and are aligned and integrated with the Grantees scientific research activities. It is expected that the combined efforts of all the SERB Grantees would lead to development of rich research culture of integrated scientific and social commitments in the country.

OBJECTIVE OF SERB SSR

SERB SSR policy intends to

- Effectively utilize the R&D infrastructure and expertise of SERB grantee to benefit other S&T stakeholders and the society
- Embed a participatory, inclusive and sustainable culture of social responsibility among SERB grantee

SSR Initiative would focus on:

- Infrastructure sharing
- Mentoring/Training
- Fostering research culture
- Public outreach and knowledge dissemination
- Scientific Services

ABOUT THE WORKSHOP

In order to meet the obligation of SERB SSR policy a 5 days online workshop/training program will be conducted by utilizing the scientific infrastructure created by using the research project received by Department of Production Engineering under “Start-up Research Grant (SRG)” scheme of SERB, DST, Govt. of India (**SRG/2019/001860; Sanction order no: SERB/F7721/2019-20, Dated. 17 Dec 2020**). The prime objective is to benefit other S&T stakeholders, researchers and the society. In this context, commercial Finite Element Software (ABAQUS Research edition) and Boundary Element Software (LMS. Virtual. Lab) have been procured. The workshop/training program will cover but is not limited to following topics:

- Material modeling (Composite, FGMs etc.)
- Elastic property evaluation
- Linear/nonlinear static, modal buckling and dynamic/transient analysis
- Consideration of mechanical, thermal, hygro-thermal load
- Impact analysis
- Delamination and crack growth analysis
- Coupled acoustic-structural analysis
- Mesh based design (Acoustic meshing)
- 2D/3D Acoustic Analysis
- Vibroacoustic analysis
- Topic as per demand of the participants

All the sessions will be conducted by the Principal Investigator of the project in association with the technical instructor of the provider of the individual software (Dassault Systems, EDS Technologies Pvt. Ltd. and 3D Engineering Automation LLP)

EVENT DETAILS

The events of the online workshop include:

- 14 Technical sessions @ 2 hours/session
- Hands on practice
- All the sessions will be conducted ONLINE in **Googlemeet platform**.
- An online test will be conducted by the coordinator at the end of the program.
- E-certificates shall be issued to participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

IMPORTANT GUIDELINES

- Faculty members of the AICTE/UGC approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians Participants from Industry etc.) and staff of host institutions are eligible to apply for the workshop.
- There is no registration fee for the participants.**
- Interested participants from industry, academic and research community are required to register compulsorily in the following link: <https://forms.gle/xhVuSmXF82nVyuBb7>
- Seats are limited (maximum 25) and the participants are selected by organizers on first come first serve basis.
- Last date of registration: 20th November 2020**

CONTACT DETAILS

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